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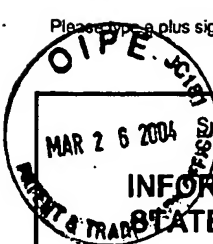
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Substitute for form 1449A/PTO				Application Number	10/076,121
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	2/12/02
				First Named Inventor	Steven Teig
				Group Art Unit	Do, Thuan
				Examiner Name	2825
Sheet	1	of	13	Attorney Docket Number	SPLX.P0081

### U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document Number Kind Code <sup>2</sup> (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TD	1.	2002/0100 009	A1	07-25-2002	Xing et al.
	2.	2002/0104 061	A1	08-01-2002	Xing et al.
	3.	2002/0107 711	A1	08-08-2002	Xing et al.
	4.	2002/0182 844	A1	12-05-2002	Igarashi et al.
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	6.	2003/0188 281	A1	10-02-2003	Xing
	7.	4,615,011		09-30-1986	Linsker
	8.	4,782,193		11-01-1988	Linsker
	9.	5,633,479		05-27-1997	Hirano
	10.	5,634,093		05-27-1997	Ashida et al.
	11.	5,635,736		06-03-1997	Funaki et al.
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	13.	6,219,823	B1	04-17-2001	Hama et al.
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	17.	6,436,804	B2	08-20-2002	Igarashi et al.
	18.	6,490,713	B2	12-03-2002	Matsumoto
	19.	6,546,540	B1	04-08-2003	Igarashi et al.
TD	20.	6,645,842	B2	11-11-2003	Igarashi et al.

Examiner Signature	<i>M. M. M.</i>	Date Considered	8-28-04
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/076,121
Filing Date	2/12/02
First Named Inventor	Steven Teig
Group Art Unit	Do, Thuan
Examiner Name	2825
Attorney Docket Number	SPLX.P0081
Sheet	2 of 13

### U.S. PATENT DOCUMENTS

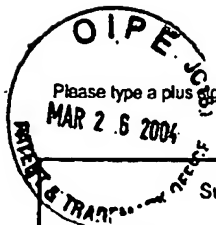
TD	21.	2001/0003 843	A1	06-14-2001	Scepanovich et al.	
	22.	2002/0174 413	A1	11-21-2002	Tanaka	
	23.	2003/0025 205	A1	02-06-2003	Shively	
	24.	2003/0121 017	A1	06-26-2003	Andreev et al.	
	25.	4,673,966		06-16-1987	Shimoyama	
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	27.	4,855,929		08-08-1989	Nakajima	
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	39.	5,717,600		02-10-1998	Ishizuka	
	40.	5,723,908		03-03-1998	Fuchida et al.	
TD	41.	5,742,086		04-21-1998	Rostoker et al.	

Examiner Signature	<i>Muando</i>	Date Considered	8-28-04
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				Group Art Unit	Do, Thuan
				Examiner Name	2825
Sheet	3	of	13	Attorney Docket Number	SPLX.P0081
<b>U.S. PATENT DOCUMENTS</b>					
42.	5,757,089		05-26-1998	Ishizuka	
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60.	6,088,519		07-11-2000	Koford	
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63.	6,155,725		12-05-2000	Scepanovic et al.	
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65.	6,175,950	B1	01-16-2001	Scepanovic et al.	

Examiner Signature	Miranda	Date Considered	8-28-04
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				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	Do, Thuan
				<b>Examiner Name</b>	2825
<b>Sheet</b>	4	<b>of</b>	13	<b>Attorney Docket Number</b>	SPLX.P0081

**U.S. PATENT DOCUMENTS**

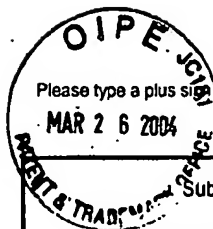
TD	66.	6,209,123	B1	03-27-2001	Maziasz et al.	
	67.	6,216,252	B1	04-10-2001	Dangelo et al.	
	68.	6,219,832	B1	04-17-2001	Buzbee	
	69.	6,230,306	B1	05-08-2001	Raspopovic et al.	
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	71.	6,253,363	B1	06-26-2001	Gasarov et al.	
	72.	6,260,179	B1	07-10-2001	Ohsawa et al.	
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	83.	6,378,121	B2	04-23-2002	Hiraga	
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	85.	6,401,234	B1	06-04-2002	Alpert et al.	
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	88.	6,412,097	B1	06-25-2002	Kikuchi et al.	
TDV	89.	6,412,102	B1	06-25-2002	Andreev et al.	

<b>Examiner Signature</b>	Muando	<b>Date Considered</b>	8-28-04
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				Group Art Unit	Do, Thuan	
				Examiner Name	2825	
Sheet	5	of	13	Attorney Docket Number	SPLX.P0081	
<b>U.S. PATENT DOCUMENTS</b>						
TD	90.	6,463,575	B1	10-08-2002	Takahashi	
	91.	6,473,891	B1	10-29-2002	Shively	
	92.	6,512,292	B1	01-28-2003	Armburst et al.	
	93.	6,519,751	B2	02-11-2003	Sriram et al.	
	94.	6,526,555	B1	02-25-2003	Teig et al.	
	95.	6,543,043	B1	04-01-2003	Wang et al.	
	96.	6,557,145	B2	04-29-2003	Boyle et al.	
	97.	6,567,967	B2	05-20-2003	Greidinger et al.	
	98.	6,586,281	B1	07-01-2003	Gabara et al.	
TD	99.	6,615,400	B1	09-02-2003	Lukanc	

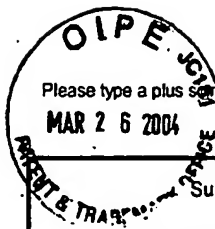
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner's Initials	Cite No.	Foreign Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>o</sup>
		Office <sup>3</sup>	Number <sup>4</sup>				
TD	100.	JP	11-296560		10-29-1999	Matsumoto et al.	with English translation of Abstract;
TD	101.	JP	2000-082743	A	03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
TD	102.	JP	64-15947		01-19-1989	Ouchi	with English translation of Abstract;
TD	103.	JP	03-173471		07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract; and with English ✓

Examiner Signature	<i>Muando</i>	Date Considered	8-28-04
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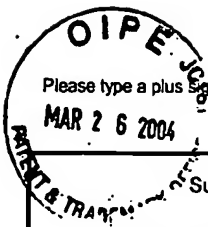
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Sheet	6	of	13	Attorney Docket Number		SPLX.P0081	
<b>FOREIGN PATENT DOCUMENTS</b>							
						translation of the application.	
TD	104	JP	04-000677		01-06-1992	Fujiwara et al.	with English translation of Abstract;
TD	105	JP	05-102305		04-23-1993	Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
TD	106	JP	05-243379		09-21-1993	Kubota	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
TD	107	JP	07-86407		03-31-1995	Miura	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
TD	108	JP	09-162279		06-20-1997	Yoshida	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓

Examiner Signature	<i>Marks</i>	Date Considered	8-27-04
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10/076,121
				Filing Date	2/12/02
				First Named Inventor	Steven Teig
				Group Art Unit	Do, Thuan
				Examiner Name	2825
Sheet	7	of	13	Attorney Docket Number	SPLX.P0081

**NON PATENT LITERATURE DOCUMENTS**

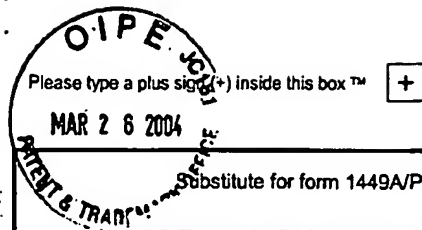
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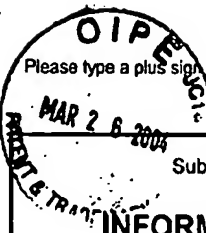
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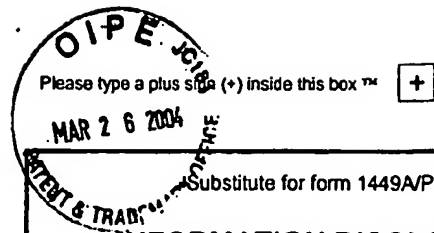
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				Filing Date	2/12/02
				First Named Inventor	Steven Teig
				Group Art Unit	Do, Thuan
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TD	193.	Teig, S. The X Architecture: Not your Father's Diagonal Wiring, International Workshop on System Level Interconnect Prediction, pp. 33-37, April 2002.			
TD	194.	Thakur, S. et al., Algorithms for a Switch Module Routing Problem, 1994, pp. 265-270.			
TD	195.	Theune, D. et al., HERO: Hierarchical EMC-constrained routing, 11/1992, IEEE pp 468-472.			
TD	196.	Tollis, I. Techniques for Wiring in Non-Square Grids, pp. 66-69, May 1989.			
TD	197.	Urrutia, J., On the Number of Internal and External Visibility Edges of Polygons, Department of CS, University of Ottawa, ON, Canada, February 11, 1997.			

Examiner Signature	<i>Mwado</i>	Date Considered	8-28-04
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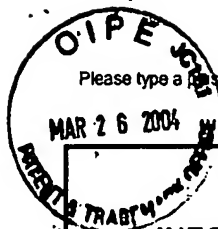
<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Application Number</b>	10/076,121
				<b>Filing Date</b>	2/12/02
				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	Do, Thuan
				<b>Examiner Name</b>	2825
<b>Sheet</b>	13	<b>of</b>	13	<b>Attorney Docket Number</b>	SPLX.P0081
<b>NON PATENT LITERATURE DOCUMENTS</b>					
TD	198	Wang, D., Novel Routing Schemes for IC Layout, Part I: Two-Layer Channel Routing, 28 <sup>th</sup> ACM/IEEE Automation Conference, 1991, pp.49-53.			
TD	199	Yan et al., Three-Layer Bubble-Sorting -Based Non-Manhattan Channel Routing, ACM Transactions on Design Automation of Electronic Systems, Vol. 5, No. 3, July 2000, pp.726-734.			
TD	200	Zhou, H. et al., An Optimal Algorithm for River Routing with Crosstalk Constraints, 1996			
TD	201	Zhou, H. et al., Optimal River Routing with Crosstalk Constraints, ACM Transactions on Design Automation of Electronic Systems, vol. 3, No. 3, July 1998, pp. 496-514.			

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				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	Do, Thuan
<b>Sheet</b>	1	of	4	<b>Attorney Docket Number</b>	SPLX.P0081

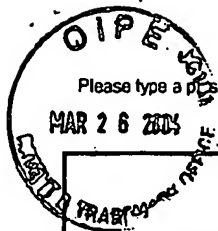
RELATED U.S. PATENT APPLICATIONS						
Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Application		Name of Patentee or Applicant of Cited Document	Date of Filing MM-DD-YYYY	Related Application Data
		Serial Number	Attorney Docket Number			
TD	1.	10/066,060	SPLX.P0072	Steven Teig	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	2.	10/066,160	SPLX.P0073	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	3.	10/066,095	SPLX.P0074	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	4.	10/066,047	SPLX.P0078	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	5.	10/061,641	SPLX.P0079	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	6.	10/066,094	SPLX.P0080	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	7.	10/062,995	SPLX.P0105	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	8.	10/066,102	SPLX.P0106	Steven Teig	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	9.	10/066,187	SPLX.P0133	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	10.	10/228,736	CDN.P0001	Steven Teig	08-26-2002	CIP of the present application
	11.	10/229,311	CDN.P0002	Steven Teig	08-26-2002	CIP of the present application
	12.	10/229,108	CDN.P0003	Steven Teig	08-26-2002	CIP of the present application
	13.	10/215,563	CDN.P0004	Steven Teig	08-09-2002	CIP of the present application
TD	14.	10/215,896	CDN.P0005	Steven Teig	08-09-2002	CIP of the present application

<b>Examiner Signature</b>	<i>Thuan Do</i>	<b>Date Considered</b>	8-28-04
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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Application Number</b>	10/076,121
				<b>Filing Date</b>	2/12/2002
				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	Do, Thuan
<b>Sheet</b>	2	of	4	<b>Attorney Docket Number</b>	SPLX.P0081

RELATED U.S. PATENT APPLICATIONS						
TD	15.	10/219,675	CDN.P0006	Steven Teig	08-14-2002	CIP of the present application
	16.	10/219,608	CDN.P0007	Steven Teig	08-14-2002	CIP of the present application
	17.	10/233,202	CDN.P0008	Steven Teig	08-28-2002	CIP of the present application.
	18.	10/229,196	CDN.P0009	Steven Teig	08-26-2002	CIP of the present application.
	19.	10/288,870	CDN.P0010	Steven Teig	11-06-2002	Continuation of the present application.
	20.	10/219,923	CDN.P0011	Steven Teig	08-14-2002	CIP of the present application
	21.	10/286,254	CDN.P0012	Steven Teig	10-31-2002	CIP of the present application
	22.	10/219,706	CDN.P0013	Steven Teig	08-14-2002	CIP of the present application
	23.	10/231,423	CDN.P0014	Steven Teig	08-28-2002	CIP of the present application
	24.	10/230,503	CDN.P0015	Steven Teig	08-28-2002	CIP of the present application
	25.	10/222,088	CDN.P0016	Steven Teig	08-14-2002	CIP of the present application
	26.	10/228,679	CDN.P0017	Steven Teig	08-26-2002	CIP of the present application
	27.	10/229,202	CDN.P0018	Steven Teig	08-26-2002	CIP of the present application
	28.	10/229,170	CDN.P0019	Steven Teig	08-26-2002	CIP of the present application
	29.	10/286,630	CDN.P0020	Steven Teig	10-31-2002	CIP of the present application
	30.	10/230,504	CDN.P0021	Steven Teig	08-28-2002	CIP of the present application
	31.	10/215,923	CDN.P0022	Steven Teig	08-09-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	32.	10/226,483	CDN.P0023	Steven Teig	08-23-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	33.	10/226,774	CDN.P0024	Steven Teig	08-23-2002	Application that describes alternative path search technology to the path search technology described in the present application.
TDV	34.	10/232,795	CDN.P0025	Steven Teig	08-28-2002	Application that describes alternative path search technology to the path search

<b>Examiner Signature</b>	<i>Thuan Do</i>	<b>Date Considered</b>	8-28-04
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				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	Do, Thuan
<b>Sheet</b>	3	of	4	<b>Attorney Docket Number</b>	SPLX.P0081

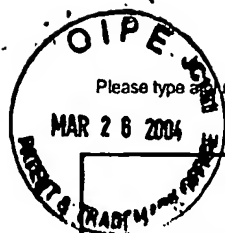
RELATED U.S. PATENT APPLICATIONS						
						technology described in the present application.
TN	35.	10/231,369	CDN.P0026	Steven Teig	08-28-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	36.	10/233,312	CDN.P0027	Steven Teig	08-28-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	37.	10/227,016	CDN.P0028	Steven Teig	08-23-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	38.	10/226,482	CDN.P0029	Steven Teig	08-23-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	39.	10/285,844	CDN.P0030	Steven Teig	10-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	40.	10/286,253	CDN.P0031	Steven Teig	10-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	41.	10/288,033	CDN.P0032	Steven Teig	11-05-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	42.	10/335,179	CDN.P0033	Steven Teig	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
TDV	43.	10/285,758	CDN.P0035	Steven Teig	10-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.

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				<b>Examiner Name</b>	Do, Thuan
<b>Sheet</b>	4	of	4	<b>Attorney Docket Number</b>	SPLX.P0081

RELATED U.S. PATENT APPLICATIONS						
TD	44.	10/286,598	CDN.P0036	Steven Teig	10-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	45.	10/286,584	CDN.P0037	Steven Teig	10-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	46.	10/335,074	CDN.P0066	Steven Teig et al.	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	47.	10/334,665	CDN.P0067	Steven Teig et al.	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	48.	10/335,243	CDN.P0068	Steven Teig et al.	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.
TDW	49.	10/335,062	CDN.P0069	Steven Teig	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.

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